



ICFRE - TFRI

July,2024-Sep.,2024 VOL:15





From the Director's Desk.

I am pleased to mention that ICFRE-TFRI, Jabalpur is one of the nine regional institutes under the ICFRE to provide strong research support for sustainable development of forests and forestry sectors in central India.

Itake pride in sharing the 15th Volume (July-September, 2024) of ICFRE-TFRI Newsletter, showcasing significant research activities, events organized, participated and publications made during

I hope this newsletter will be helpful for researchers, different stakeholders, and policy makers concerned with forestry research.

Dr. H. S. Ginwal **Director, ICFRE-TFRI Jabalpur**

Outreach Programme 5-7 Significant visits/ Demonstration 8 Celebration of Important Days 8-10 Staff News 10 Publications 10 Media Coverage 11 Infrastructure and Facilities Available 12-13		
Scientist's Corner 3-5 Outreach Programme 5-7 Significant visits/ Demonstration 8 Celebration of Important Days 8-10 Staff News 10 Publications 10 Media Coverage 11 Infrastructure and Facilities Available 12-13 Testing Facilities Offered 14	Content	Page
Scientist's Corner 3-5 Outreach Programme 5-7 Significant visits/ Demonstration 8 Celebration of Important Days 8-10 Staff News 10 Publications 10 Media Coverage 11 Infrastructure and Facilities Available 12-13 Testing Facilities Offered 14	Major Events	1-2
Significant visits/ Demonstration Celebration of Important Days Staff News 10 Publications Media Coverage 11 Infrastructure and Facilities Available Testing Facilities Offered 8 8-10 10 11 12-13	Scientist's Corner	3-5
Celebration of Important Days Staff News 10 Publications 10 Media Coverage 11 Infrastructure and Facilities Available 12-13 Testing Facilities Offered	Outreach Programme	5-7
Staff News10Publications10Media Coverage11Infrastructure and FacilitiesAvailable12-13Testing Facilities Offered14	Significant visits/ Demonstration	8
Publications 10 Media Coverage 11 Infrastructure and Facilities Available 12-13 Testing Facilities Offered 14	Celebration of Important Days	8-10
Media Coverage 11 Infrastructure and Facilities Available 12-13 Testing Facilities Offered 14	Staff News	10
Infrastructure and Facilities Available 12-13 Testing Facilities Offered 14	Publications	10
Available 12-13 Testing Facilities Offered 14	Media Coverage	11
Testing Facilities Offered 14	Infrastructure and Facilities	
	Available	12-13
Services Available for the Society 15-17	Testing Facilities Offered	14
	Services Available for the Society	15-17

Major Event

Regional Research Conference-2024

The Regional Research Conference (RRC) 2024 was organized jointly by the ICFRE institutes - Arid Forest Research Institute (AFRI), Jodhpur, and Tropical Forest Research Institute (TFRI), Jabalpur, on the theme "Regenerating Landscapes: Forestry Interventions for Rehabilitation and Restoration of Degraded Lands and Stressed Ecosystems" on 12th September 2024 to discuss the future course of forestry research. The conference was chaired by Smt. Kanchan Devi, IFS, Director General, ICFRE, in the presence of the Chief Guest, Shri Arjit Banerjee, IFS, PCCF & HoFF, Rajasthan. Dr. Rajesh Sharma, DDG (Research), ICFRE, gave a brief introduction to the role of RRCs. Representatives of the Forest Departments of Chhattisgarh and Maharashtra attended the conference online.

Shri Pradeep Vasudev, IFS, PCCF and Director, SFRI, Jabalpur, attended the conference at ICFRE-TFRI, Jabalpur. Dr. Tarun Kant, Director, ICFRE-AFRI, welcomed the dignitaries, and Dr. H.S. Ginwal, Director, ICFRE-TFRI, apprised the gathering of the jurisdiction, research strengths, and activities of TFRI, Jabalpur.

The conference was also attended by the Group Coordinator (Research), all the scientists, officers, and technical officers from both institutes, including representatives from NIRANTAR verticals such as BSI, ZSI, SICON, WII, IIFM, as well as progressive farmers, industrialists, and forest department officials from the states of Madhya Pradesh, Chhattisgarh, Maharashtra, Gujarat, Daman & Diu, and Dadra & Nagar Haveli.









July,2024-Sep.,2024 VOL:15



Memorandum of Understanding

The Memorandum of Understanding for setting up the seventh Van Vigyan Kendra (VVK) at Indore was signed on 25th July, 2024, by the Institute's Director, Dr. Harish Singh Ginwal, and Shri Narendra Singh Sanodia, Chief Forest Conservator, Indore. The aim is to promote income generation for farmers, forest officers, and other beneficiaries in the Malwa region of Madhya Pradesh by using advanced forestry techniques. A training programme was also conducted at VVK, Indore, where Shri Aviral Aasiya, Scientist-D, delivered a lecture on the use of organic fertilizers.





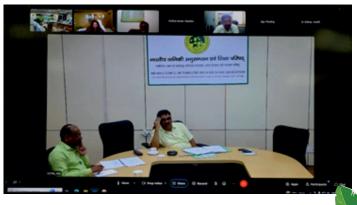
33rd Research Advisory Group Meeting

The 33rd Research Advisory Group (RAG) Meeting was held on 23rd September 2024 at ICFRE-Tropical Forest Research Institute (TFRI), Jabalpur, to discuss new project proposals and review ongoing research. Dr. H.S. Ginwal, Director, welcomed participants and briefed them on the institute's mandate, various research activities carried out by the institute and collaborations, including with NIRANTAR verticals like BSI and WII. Dr. P.S. Rawat, ADG Research & Planning, ICFRE, stressed the importance of stakeholder-focused project deliverables.

Experts from state forest departments of Madhya Pradesh, Chhattisgarh & Maharashtra, CAMPA Chhattisgarh, NMPB, Delhi University, GGU Bilaspur, IGNTU Amarkantak, JNKVV, SFRI, NGOs, and progressive farmers discussed the the proposed projects in length.













July,2024-Sep.,2024 VOL:15

SCIENTIST'S CORNER

Testing of Eucalyptus and Casuarina clones in Chhattisgarh

Chhattisgarh State Forest Department, Raipur, is promoting tree cultivation under the Kisan Vriksh Mitra Yojna. Farmers have also shown keen interest in growing clonal eucalyptus, teak, bamboo, and other species. In response, the institute established a eucalyptus clonal trial with 102 clones with six replications at Godhi Nursery, Raipur Forest Division, in July 2024. Similarly, to assess the performance of Casuarina species in non-traditional growing areas like Central India, a block plantation of four elite clones of the species was established at Godhi Nursery, Raipur Forest Division. The Identification of stable and high performing clones will help in providing tested quality planting material to the tree growing farmers in the state.



Dr. Naseer Mohammad Scientist-E Forest Genetics and Tree Improvement Division

Propagation of difficult-to-root Dalbergia latifolia (Kala Shisham)

Dalbergia latifolia, a species recalcitrant to adventitious rooting, develops cellular competence for root formation with exogenous auxin treatment. Propagation of juvenile shoot cuttings obtained from annual hedging of 6-12-year-old progenies of superior genotypes, with a basal dip treatment of 5.0 mM IAA + 1.0 mM Boric Acid for 18-20 hours and propagation in a soil mix in polybags under ambient temperature and humidity in a partially shaded net house, yielded $\approx 30\%$ rooting success (rooted, hardened plants), which is much higher than previous reports for difficult-to-root Dalbergia latifolia.

This propagation procedure is highly adaptable for use in forest nurseries to produce quality planting material for this valuable species. Propagation in a soil mix in polybags within a partially shaded open environment reduces the time required for plant hardening, making the plants ready for field transfer within three months. This allows them to be planted during the rainy season of the same year. Rooting of shoot cuttings in a soil mix substrate in polybags eliminates mortality losses during the transfer of rooted cuttings. The procedure is economical and ensures the production of hardened, quality plants in a short time frame of three months.







Rooted cuttings and hardened rooted plants of Dalbergia latifolia

Dr. Pramod Tiwari Scientist-D Forest Genetics and Tree Improvement Division

Conservation Strategy for *Boswellia serrata* Roxb. (Salai)

A conservation strategy for *Boswellia serrata*, an endangered species, was proposed based on genetic diversity analysis using molecular markers. The study examined populations from 15 locations in Madhya Pradesh and Chhattisgarh, and an advisory note for conservation strategy was submitted to the state forest departments of both states.

• In situ conservation: This approach is suitable for areas with low Boswellia density and genetically similar populations, such as Balaghat, Jabalpur, Gwalior, Khandwa, and Sheopur in Madhya Pradesh, and Dhamtari, Narayanpur, and Sarguja in Chhattisgarh. Protecting these areas is crucial to preserve genetic diversity, as depletion in these regions would result in permanent genetic loss.





BWSDDDR

July,2024-Sep.,2024 VOL:15

Ex situ conservation (reintroduction/artificial regeneration): This is recommended for areas with low density but genetically related populations, such as Chhindwara-Chhatarpur, Damoh-Mandla, Gwalior-Sheopur/Shivpuri, and Panna-Shivpuri/Rewa. These populations would require protection of the habitat for securing natural regeneration apart from reintroduction/ artificial from the same population or from the closest relative population.

Genetic analysis revealed that populations in Sarguja, Dhamtari, and Narayanpur are genetically related to those in Jabalpur, Balaghat, and Chhatarpur, in decreasing order, suggesting the need for conservation of the species across the state boundaries, including potential reintroduction.

> Dr. Pramod Tiwari **Scientist-D** Forest Genetics and Tree Improvement Division

Improvement of *Tectona grandis* (Teak)

- (a) Selection of Candidate Plus Trees: Marked 191 Candidate Plus Trees (CPT) in Central India (M.P.-118, Chhattisgarh-43, Maharashtra-17, Odisha-13) based on phenotypic characteristics following comparison with check trees.
- **(b)** Establishment of Progeny trial: Established a Progeny trial of Teak in 2019 representing 29 half sib families (M.P.-05, Chhattisgarh-08, Maharashtra-08, Odisha-08).





Candidate Plus Trees



Progeny Trial

- (a) Establishment of Seedling Seed Orchard (SSO): Established a Seedling Seed Orchard (SSO) in 2019 representing 33 families (M.P.-13, Chhattisgarh-10, Maharashtra-10).
- (b) Establishment of Germplasm bank: Established a Germplasm Bank in 2020 representing 31 Accessions (M.P.-12, Chhattisgarh-09, Maharashtra-05, Odisha-05).
- (c) Establishment of Clonal Seed Orchard (CSO): Established a Clonal Seed Orchard (CSO) in 2021 through bud grafted plantlets representing 15 clones from 5 agroclimatic zones of Madhya Pradesh.







Seedling Seed Orchard Germplasm Bank

Clonal Seed Orchard

Dr. Pramod Tiwari Scientist-D **Forest Genetics and Tree Improvement Division**

Development of Management practices for existing seed orchards of Teak

Most of the Seed Production Areas (SPAs) and seed orchards developed during 1992-2000 are producing seeds in low quantities mainly due to poor management. Based on observations of fruiting status, a review of existing management practices and experimental findings for inducing flowering and fruit production, management of existing seed orchards is recommended to enhance seed production from existing orchards. Key practices include selective opening of canopy by thinning/rouging of undergrowth, deformed and over matured trees leaving 100 to 120 trees per hectare area in SPAs, thinning operation for opening of crown in CSOs and SSOs, and performing cultural operations like weeding, pruning of lower branches, and sub-soiling associated root pruning in around 2meter circle from tree base for increasing fertility status. Soil amendment with N+P or N+K in two split doses enhances seed production in nutrient deficient soil.







NEWSDEUDER

July,2024-Sep.,2024 VOL:15

Impact of improvement activities on seed quality of Teak

Seeds from nine improved sites, selected from Madhya Pradesh and Chhattisgarh, were compared with seeds from unimproved sites located at least 2 km away for morphological and physiological parameters. The results revealed that SPA seeds are of better quality than those from CSO and SSO, both in terms of morphological parameters and germination. Seed germination from improved sites was 10-18% higher in Madhya Pradesh and 15-23% higher in Chhattisgarh compared to unimproved sites. In Madhya Pradesh, seedling quality in terms of height and basal girth was best for SPA Bahrai, followed by SPA Pondi and CSO TFRI. In Chhattisgarh, seedling quality was best for SPA Pali, followed by SPA Chatuabhauna, CSO Ghasipur, and SSO Ghasipur. After three months of growth, SPA seedlings showed better quality in terms of height and basal diameter. Thus, SPAs have proven to be an important source of moderately improved planting material, with no significant threat to the genetic diversity of future plantations.

> Dr. Pramod Tiwari **Scientist-D**

Forest Genetics and Tree Improvement Division

Forest Genetic Resources Conservation: Efforts of ICFRE-TFRI Jabalpur in Central India

Forest genetic resources (FGR) are critical to biodiversity, ecosystem resilience, and global environmental stability. However, deforestation, climate change, and overexploitation threaten their conservation. Preserving genetic diversity is essential for species adaptability, supporting forest-dependent communities, and maintaining ecological services like carbon sequestration and soil conservation. To address this, ICFRE-TFRI Jabalpur has established Central India's first ex situ seed gene bank, conserving over 300 germplasm accessions from 35 species at -20°C. This initiative is key to ensuring the longterm preservation of FGR and ecological sustainability





Shri Manish Kumar Vijay Scientist-B

OUTREACH PROGRAMMES

Training on Seed and Nursery Technologies for the Conservation and Sustainable **Management of Wild Fruiting and RET Species**

ICFRE-Tropical Forest Research Institute (TFRI), Jabalpur in collaboration with the Chandrapur Forest Academy of Administration, Development & Management, Chandrapur, Maharashtra, conducted a two-days training workshop on seed and nursery technologies for the frontline staff of the Maharashtra Forest Department on 11–12 July, 2024 in hybrid mode under the ongoing AICRP on Seed Technology and Wild Fruiting Species, funded by CAMPA.

The workshop emphasized critical aspects of seed and nursery management, including seed collection, overcoming dormancy, pre-treatment methods, nursery input management, pest and disease control, and the selection of Candidate Plus Trees (CPTs). A total of 43 participants including Range Forest Officers, and Forest Guards from 11 forest circles in Maharashtra attended the program.











July,2024-Sep.,2024 VOL:15

Awareness Program on Restoration of Ravine Land

ICFRE - Tropical Forest Research Institute, Jabalpur organized an awareness program on restoration of ravine land for about 60 villagers of local communities, Deputy Ranger and Forest Guard of Madhya Pradesh Forest Department at Useth village, Morena district of Chambal region on 30th July 2024. In the program, Mr. M. Rajkumar, Scientist and Mr. A.J.K. Asaiya delivered lectures in the presence of Associate Director of Research Regional Agricultural Research Center, Morena.





Training on Bamboo Propagation and Hi-Tech Nursery Techniques

One week training program on "Bamboo Propagation and Hi-Tech Nursery Techniques" from 5th to 9th August, 2024 for 15 officers from Chhattisgarh Forest Department and Telangana Forest Development Cooperation was organized at ICFRE -Tropical Forest Research Institute, Jabalpur.

Dr. Fatima Shirin, Training Coordinator and Scientist-G, Genetics and Tree Improvement Division highlighted those 10 trainings conducted for Chhattisgarh and proposed 18 additional trainings on propagation techniques for the department by the institute.







Training programs for officials of Chhattisgarh State Forest Department

A three days training on "Candidate plus tree selection of timber and non-timber species" was conducted during 21st to 23rd August, 2024 at ICFRE-TFRI, Jabalpur to train around 20 officials from Chhattisgarh Forest Department. Dr. H.S. Ginwal, Director ICFRE - TFRI enunciated importance of the course in developing quality planting material for increasing productivity and optimum land utilization in the country. Dr. Pramod Tiwari, Training Coordinator & Scientist, Genetics and Tree Improvement Division, shared the planned lectures and talks of training including that on Bamboo, Teak and other important commercial species, their management of pest and diseases etc.







July,2024-Sep.,2024 VOL:15



To encourage production of quality planting material of commercially important forestry tree species, ICFRE - Tropical Forest Research Institute Jabalpur organised 3 days training during 28th to 30th August, 2024 on "Establishment and management of progeny trials, seed production areas and seed orchards" under the guidance of Director Dr. H.S. Ginwal. Dr. Naseer Mohammand, Training Coordinator, Head & Scientist E, Genetics and Tree Improvement Division coordinated training for 20 officials from Chhattisgarh Forest Department to support increased productivity in Indian forests.







Training on "Use of soil health cards for promoting soil test based nutrient management practices"

An online training programme on "Use of soil health cards for promoting soil test based nutrient management practices" was conducted at ICFRE - Tropical Forest Research Institute Jabalpur on 29th August, 2024 for 215 Forest Range and Deputy Range Officers of Madhya Pradesh Forest Department (MPSFD) under the guidance of PCCF & HoFF Shri Aseem Srivastava, IFS, MPSFD and Dr. H.S. Ginwal, Director ICFRETFRI.

Dr. Avinash Jain, Head and Scientist -F, Forest Ecology and Climate Change Division informed that the institute successfully trained officers from all 63 divisions of Madhya Pradesh to interpret and utilize Forest Soil Health Cards prepared by the institute to increase fertility of soil and productivity of their respective forest areas under the All India Coordinated Project for Preparation of Forest Soil Health Cards. Dr. V. P. Panwar, National Project Coordinator, Forest Research Institute, Dehradun emphasized the importance of soil health.for vegetation and plantation









MEWSDERNER

July,2024-Sep.,2024 VOL:15

SIGNIFICANT VISITS/ DEMONSTRATION

Shri R. Y. S. Sandhu, Deputy Inspector General of Police, Sector Headquarters, ITBP, Bhubaneswar, Shri Mahendra Pratap, Commandant and other ITBP officers visited ICFRE -Tropical Forest Research Institute, Jabalpur on 9th August, 2024. Shri Sandhu and Shri Mahendra Pratap also planted Bael and Cassia fistula saplings in the Nakshatra Vatika, established at ICFRE-TFRI, Jabalpur.



32 trainee forest range officers of Chandrapur Forest Academy, Maharashtra visited ICFRE - Tropical Forest Research Institute, Jabalpur on 21th August, 2024 and learnt about bamboo production through tissue culture, non-wood forest products, insectary, botanical garden and other research works.





CELEBRATION OF IMPORTANT DAYS

78th Independence Day

ICFRE - Tropical Forest Research Institute, Jabalpur celebrated 78th Independence Day. Dr. H.S. Ginwal, Director, of the Institute hoisted the national flag and addressed the gathering, highlighting the research achievements of the Institute in the past year. Appreciating the corruption free functioning of the Institute, he encouraged all the officers and staff to work for efficient revenue generation for the institute





Ek ped Maa ke Naam campaign

A mass tree plantation campaign was carried out in the "Matarvan", established at ICFRE-TFRI, Jabalpur campus with participation from local residents, the Sarpanch of Neemkheda, retired and serving scientists, officers, employees and researchers of the institute through public participation. This tree plantation was done under the national campaign "Ek Ped Maa Ke Naam" and about 400 fruit, ornamental and forestry plants have been planted in this campaign.









July,2024-Sep.,2024 VOL:15



Swachh Bharat Abhiyan

Dr. Fatima Shirin, under the leadership of Dr. HS Ginwal, Director, administered the Swachhta Pledge to all the scientists, officers and employees of the institute under Swachh Bharat Abhiyan and Swachhata Hi Seva.





Under Swachhata Hi Seva-2024 campaign, cleanliness drives were organized at different sites of Genetics and Tree Improvement division nursery, Silviculture division nursery and Establishment section of ICFRE - Tropical Forest Research Institute, Jabahour.





Hindi Pakhwada 2024

As part of the Hindi Fortnight 2024, a series of programs were conducted at Tropical Forest Research Institute Jabalpur. The speech of Hon'ble Home and Cooperative Minister, Shri Amit Shah on Hindi Day and Diamond Jubilee Year of the State Language was shown to all employees of the institute. Acharya Sanjeev Verma, Salil Samay Vishwavani Sansthan; Professor Uma Tripathi, Ex Head of Department, Department of Journalism, Rani Durgavati University; Professor K.N. Shukla, Ex Head of Department, Department of Culture, Jabalpur delivered speeches on Hindi language and environment. An exhibition of Hindi books, literature and articles in the library of the institute were also arranged for scientists, officers and employees.



Under the joint aegis of ICFRE-Tropical Forest Research Institute and the Zoological Survey of India Central Zone Regional Station (CZRC), Jabalpur, students from Jabalpur Engineering College performed a street play on the theme "Forest and Us." Dr. P.S. Bhatnagar, In-charge Officer of CZRD, was the chief guest.



Blood Donation Camp

A voluntary blood donation camp was organized at ICFRE - Tropical Forest Research Institute, Jabalpur, in collaboration with Rani Durgavati Hospital (Lady Elgin), Jabalpur, Dr. Tushar Gupta, Blood Bank In-charge, Rani Durgavati Hospital lead the camp.









STAFF NEWS

Name of Scientist	Post	Date of Retirement
Dr. S.C. Biswas	Scientist-E	31.07.2024

PUBLICATION

Research Papers

- Khobragade, N. D. and Kanojiya, P. (2024). Effect of pre-treatment on seed germination and seedling growth of *Ailanthus excels* Roxb. *International Journal of Applied and Universal Research*, 11(4):16-20.
- Vijay, M. K., Tiwari, S., Kahar, L., Malviya, D., Aharwar, M., and Singh, N. (2024). Impact of seed size on germination parameters in *Flacourtia indica* (Burm.f.) Merr. *International Journal of Research in Agronomy*, 7(9):23-29. https://doi.org/10.33545/2618060X.2024.v7.i9a.1432.
- Vijay, M. K., and Singh, N. (2024). Nutritional composition, photochemistry, and pharmacognostic activities of *Flacourtia indica* (Burm.f.) Merr.: An important wild edible fruit species of central India. *International Journal of Advanced Biochemistry Research*, 8(7): 765-771. https://doi.org/10.33545/26174693.2024.v8.i7j.1586
- Vijay, M. K., Prajapati, N., and Singh, N. (2024). Assessment of ethnobotanical values of important wild edible fruiting species: *Semecarpus anacardium* L. and *Flacourtia indica* (Burm.f.) Merr. in Central India. *International Journal of Agriculture Extension and Social Development*, 7(SP-Issue 10):13-19. https://doi.org/10.33545/26180723.2024.v7.i10Sa.1187

Book Chapter

• Mohammad, N., Dahayat, A. and Agrahari, H. (2024). Molecular Markers in the Management and Improvement of Forest Genetic Resources. In: Thomas T, D., Razdan, M.K., Kumar, A. (eds) Biotechnological Approaches for Sustaining Forest Trees and Their Products. Springer, Singapore. https://doi.org/10.1007/978-981-97-4363-6 7.

Monograph

- Semecarpus anacardium L. F.: an important wild edible fruit species of Central India (ISBN 9788197183652)
- Flacourtia indica (BURM. F.) MERR.: an important wild edible fruit species of Central India (ISBN 9788197183645)

Abstract

• Rai, N., Berry, N. and Singh, N. (2024). Marketing Channels of Agroforestry Produce Existing in the Bundelkhand Region of Madhya Pradesh. In abstract book (ISBN 978-93-340-7696-7) 6th International Conference on "Cutting Edge solutions in Science-Agriculture, Technology, Engineering and Humanities", Page no. 441-442.







ICERE - TERI



July,2024-Sep.,2024 VOL:15

Media coverage



चार प्रस्तावित परियोजनाओं के उद्देश्य, ICFRE-TFRI organises 33rd Annual Research Advisory Group meeting कार्यप्रणाली और वितरण पर मंधन









TheHitavada

शोध गतिविधियों पर रहेगा फोकस

सिटी बुक 05





जवरापुर *ताव स्थापेश* अवरापुर संभावत क विवादत अध्य सामूहिक वृक्षारोपण अभियान





टीएक आईआर में 78 वो स्वतंत्रता दिवस मनावा गया। संस्थान के निदेशक डॉ. एक्प्स निन्छात ने राष्ट्रीय धात कहराया और फिल्ने वर्ष संस्थान की शोध, विलीच और अवसंतरकात्मक उपलिक्ष्यों पर प्रकार इतती हुए उपस्थित तेणों को संबंधित किया।

TFRI inaugurates training on 'Bamboo Propagation and Hi-Tech Nursery Techniques

सरक्ष क्यूनक्राता ।

बांस प्रसार व हाईटेक नर्सरी तकनीक प्रशिक्षण का शुभारंभ

का र केवान का किया के 5 औरती हा उसित

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Research Institute The 78th
Independence Day was refebrated at NCFEI - Tropical

Forest Research Institute
Inhalput. De HS Girwal,
Director NCFEE - TFEI Institute
Inhalput. De HS Girwal,

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टीएक अर आई में रोपे पीचे

प्रकारपुरः उत्तर कटियांचीर यस अनुसंधान यांच्यान (रोएक भारभाई) चरिवा के बात वन में डॉ. एकास रिरावान निरोत्तक के नेतृत्व में जन चार्यक्री हात स्थापित सोनें, सार्यक्ष केंग्रह्मा, संस्थान के संध्यानकृत एवं कार्यक्षा विस्तिकर्ते, अधिकारिये, कर्मकारियों और सोन्धरियों क्रान्यम्थित कृत्योगन किया गया। समृत सम्पन्नस्क अनुस्थान, नीतृ सिंह ने बताय कि यह युक्तरेशम एक यह मां के जुन के रुद्देश अभियान के तहत किया गया। इस अभियान में लग्पन 400 फलवर, मामपदी और परिश्रो

पत्रिका{PLUS} SUNDAŸ उष्ण कटिबंधीय वन अनुसंघान संस्थान









पर्यावरण के सारथी बनकर लगाए पौधे



दैनिक भास्कर

जबलपुर, रीक्सर, 15 सितम्बर 2024. 04

रोपे फलदार पोंधे

जबलपुर: टीहरुआरआई में एक पेट भी के नाम अधिकार के अंतर्गत सब्द्रिक क्षेत्र रोगण क्षित्रा गय। ही. एक्स्म निनगत, निदेशक के नेतृत्व में कार्यक्रम हुआ। समृह समेन्वरक अनुसंधार, खेलू सिंह ने बताया कि अभियान में लगभग 400 फलकर, सतावटी और व्यक्तियों पीचे सेचे वहा



अवस्तापुर क्वत स्वादेश अवस्त्र, बंगातार अ विस्तार आध है

वर्षिक अनुसंधान सलाहकार समृह दैठक आयोजित









Infrastructure and facilities available at ICFRE TFRI, Jabalpur

National Insect Repository

- 750 species of insects.
- Recognized by National Biodiversity Authority (NBA) as National Repository



Mycology Herbarium

- 4000 Fungal specimens systematically arranged and documented and 451 species of Fungi identified.
- Forest fungi identification service available



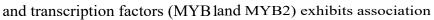
Herbarium

- 800 plant specimens preserved in Herbarium.
- Forest Ecology & Climate Change Division provides services of plant identification on submission of specimens.















Museum cum Interpretation Centre



Technical Services Offered

Institute conduct Internship programmes for student s/stakeholders

Internship Charges

Sl.No.	Training	Biotechnology /Molecular Biology		cular Biology Other Disciplines	
	Period	B.Sc./Undergraduate	M.Sc.	B.Sc./Undergraduate M.Sc.	
			Postgraduate		Postgraduate
1.	One Week	Rs. 1,000=00	Rs. 2,000=00	Rs. 1,000=00	Rs. 2,000=00
2.	Fifteen days	Rs. 2,000=00	Rs. 4,000=00	Rs. 1,500=00	Rs. 3,000=00
3.	One Month	Rs. 3,000=00	Rs. 8,000=00	Rs. 3,000=00	Rs. 5,000=00
4.	Two Months	Rs. 5,000=00	Rs. 11,000=00	Rs. 5,000=00	Rs. 7,000=00
5.	Three Months	Rs. 28,000=00	Rs. 16,000=00	Rs. 7,000=00	Rs. 11,000=00
6.	Above three months to six	Rs. 12,000=00	Rs. 22,000=00	Rs. 9,000=00	Rs. 16,000=00
	months				





Testing facilities available at ICFRE - TFRI, Jabalpur

S1.	Parameter	Price in	
No			
1.	рН	100/- per sample	
2.	EC	100/-per sample	
3.	Organic Carbon (OC) /Organic Matter	100/-per sample	
4.	Major nutrients (N, P, K, Ca, Mg, Na)	300/- each and 1500/ - package	
5.	Micronutrient (Mg, Ni, Zn, Fe, Co, Cr, Cu, Mn, B)	300/- each and 2000/- package	
6.	Texture analysis	500/-per sample	
7.	Bulk Density	150/-per sample	
8.	Total soil Analysis (1 to 7)	4000/-per sample	
9.	Dry matter / Moisture percentage	100/-per sample	
10.	Plant testing - N, P, K, Ca, Mg, Na	250/ - element and 1300 / -for all	
11.	Plant identification charges	250/ - specimen	
12.	Bio- control agent -egg parasitoid card (25000 eggs /card)	300/ - card	
13. 14.	Laboratory testing of pesticide (biopesticide / insecticide) against insect defoliator/ white grub	20,000/- per defoliator 40,000/- per white grub	
15.	Field testing of insecticides against termites and insect defoliators	1,00,000/-	
16.	Identification services for decay fungi/mould	1000/ species	
17.	Identification of fungal specimen and its matching with herbarium	250/-per sample	
18.	Micro photography of fungi	100/-per sample	
19.	Seed germination and viability test	500/ - per sample	
20.	Seed purity tests	400/ - per sample	
21.	Moisture content of seeds	200/ - per sample	
22	Determination of phenols (if standards available)	600/ - per sample	
23	Determination of tannins (if standards available)	600/ - per sample	
24	Determination of carbohydrates (if standards available)	600/ - per sample	
25	Determination of starch (if standards available)	600/ - per sample	
26	Determination of chlorogenic acid (if standards available)	600/ - per sample	
27	Determination of Protein (if standards available)	600/ - per sample	
28	Chemo profiling of medicinal plants with the help of HPTLC	2000/- for the first sample & 500/ - per subsequent sample of the same sp.	
29	Leaf area Measurement	200/- per sample	
30	Estimation of a single marker constituent in plant extract	5500/ - per sample for Academia / R	
		&D, 10000/ - per sample for Industry	
31	Ash Content	610/-per sample for Academia, 1100 /	
22		per samplee for Industry	
32	Microscopic analysis	500/- per sample	
33	Genetic Fidelity testing	10,000/- per sample (Minimum 10samples)	





Services available for the Society

S. No.	Species		Num	ber of Plants Available	
1.	Rauvolfia serpentina TFRI RS-1 (Sarpagandha)			200	
2.	Rauvolfia serpentina	TFRI RS-2 (Sarpagandha)		150	
Bamboo	os Species- Rs. 30/-pla	nt			
S. No.	Species		Num	ber of Plants Available	
1.	Bambusa bambos (K	atang bans)		1350	
2.	Bambusa vulgaris (va	r. green)		110	
3.	Bambusa nutans			75	
4.	Dendrocalamusstrictus	(Lathi bans)		940	
5.	Dendrocalamuslongisp	athus		100	
Tree Sp	ecies and Medicinal P	lants - Rs. 25/- plant	·		
S. No.	Species		Num	ber of Plants Available	
1.	Tectona grandis (Teak	200			
2.	Dalbergia latifolia (K	ala shisham, Rosewood)	200		
3.	Celastrus paniculatus (Malkagini, Jyotishmati)		100		
4.	Plumbago zeylanica (C	`	100		
5.	Oroxylum indicum (Shivnag) 50		50		
6.	Tamarindus indica (Imli)		150		
Seeds ar	nd plants available for		1		
S1		f species		Rates	
No	Common name	Scientific name	Seeds	Plants	

Seeds and plants available for sale					
S1.	Name of species		Rates		
No	Common name	Scientific name	Seeds (Rs/kg)	Plants (Rs./Plant)	
1.	Sagon	Tectona grandis	5000/-	30/- (Seed raised) 60/- (Tissue culture raised)	
2.	Beejasa1	Pterocarpus marsupium	5000/-	31/-	
3.	Shisham	Dalbergia latifolia	7000/-	50/ -	
4.	Sisso	Dalbergia sisoo	3000/-	100/-	
S.	Maida chhal	Litsea glutinosa	10000/-	50/-	
6.	Chironji	Buchanania lanzan	8000/-	50/-	
7.	Kullu	Sterculia urens			
8.	Mahua	Madhucdongifolia	5000/-		
9.	Neem	Azadirachta indica	5000/-	50/-	
10.	Imli	Tamarindus indica	3000/-	30/-	
11.	Bel	Aegle marmelos		30/-	
12.	Karanj	Pongamia pinnata	3000/-	30'-	
13.	Khamer	Ġmelina arborea	1000/	50/-	
14.	Haldu	Adina cordifolia		50/-	
15.	Bamboo	Different Species		50/-	
16.	Sarpagandha	Released Variety		50/-	
		TFRI-RS-I,TFRI-RS-II			
17.	Kaim/Mundi	Mitragyna parvifolia	3000/-	50/-	
18.	Kumbi	Careya arborea	3000/-	50/-	
19.	Jamun	Syzygiumcumini	3000/-	50/-	
20.	Khair	Acacia catechu	5000/-		
21.	Babul	Acacia nilotica	3000/-		



Plants Available for Sale at Silviculture, Forest Management Division, TFRI, Jabalpur

S. No.	Species	Number of Plants Available
1.	Tinospora cordifolia (Giloy)	100
2.	Aegle marmelos (Bel)	540
3.	Cymbopogon citratus (Lemon grass)	100
4.	Oroxylum indium (Shyonak)	50
5.	Mimusopselengi (Moulshri)	260
6.	Asparagus racemosus (Satawar)	100
7.	Artemisia annua (Davana)	30
8.	Phyllanthus emblica	25
9.	Terminalia arjuna	30
10.	Moringa oleifera L	1850
11.	Bamboo	600
12.	Delonix regia	3000
13.	Cassia fistula	1000
14.	Pongamia pinnata	550
15.	Tamarindus indica	820
16.	Albizia lebbeck	5000
17.	Syzygiumcumini	540
18.	Terminalia bellirica	720
19.	Other Species	As per availability





Medicinal/trees species Plants- Rs. 30/- plant

- Prices and number may be varied as per the availability and season TFRI TRICHO-Card
 - TFRI-TRICHOCARD developed using the parasitoid, *Trichogramma raoi*.
 - It's an Ecofriendly bio-control method for managing teak defoliator & skeltonizer.
 - 4 cards required for a hectare area cards available @ Rs. 500/- per card







Guest House facilities and Charges

S.No.	No. Category of Person		Rent per day while on Govt. Duty (Rs.)		Rent per day while not on Govt. Duty (Rs.)	
		Rooms	Suits	Room	Suit	
1.	 a) Officials of ICFRE and institutes b) Consultants and research Fellow at ICFRE and its institutes and FRI Deemed Universities c) Officials and experts of MoEF&CC, New Delhi d) Officials of SFDs e) Ex- employees of ICFRE and Ex-Deputationist 	150	200	200	300	
2.	Family members of present /ex -employees a) ICFRE Employees b) ICFRE Deputationist			200	300	
3.	 a) Officials of Autonomous bodies, Universities under the FRI Deemed University b) Officials of Central/State Government other than SFDs 	200	300	400	500	
4.	Others (Non Governmental)			600	750	

Maintenance charges in addition to above rent will be applicable as follows:

Accommodation type	Maintenance charge including A/C, Heater Charges
Room	200/-per day
Suit	250/- per day





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NEWSLETTER



July,2024-Sep.,2024 VOL:15

ABOUT THE INSTITUTE

- ICFRE-Tropical Forest Research Institute, Jabalpur (Madhya Pradesh) came into existence in April 1988, to provide strong research support to sustainable development of forest and forestry sectors in central India comprising the states of Madhya Pradesh, Chhattisgarh and Maharashtra.
- It is one of the nine Regional institutes under the Indian Council of Forestry Research & Education, Dehradun (Uttarakhand).
- ICFRE-Skill Development Center, Chhindwara, came into existence on 30th March 1995. It was declared on 3rd January 1996,a satellite Centre of ICFRE-Tropical Forest Research Institute, Jabalpur.







Core Research Areas

- Leco-restoration of Vindhyan, Satpura and Maikal hills and Western Ghats, Rehabilitation of mined areas.
- ❖ Development and Demonstration of Agroforestry Models
- **❖** Forest Protection
- ❖ Biofertilizers and Biopesticides
- Non-Wood Forest Products
- ❖ Biodiversity Assessment, Conservation and Development
- Sustainable Forest Management
- ❖ Planting Stock Improvement
- ❖ Climate Change & Environment Amelioration
- ❖ Forest Products Development

